LAST ALWAYS, GIST OF HIS FAREWELL

ugar industry of the United States, and when the European nations can supations there will be a production of sugar which the world has never before

production may be lowered and yields increased, and all of the plantations are preparing in their own way to fit themselves for the struggle which is themselves for the struggle which is the conservative policy may continue, and if it does, I feel sure that when the time of stress comes we shall not be found wanting.

"It is a truth too well known to meed repetition, that in order to obtain the best market price, a manufacturer has to be continually on the alert to improve the quality of his wares; and if, for one reason or another, the quality is allowed to decline, the manufacturer soon finds, in these days of Year's Grep Good

less than the previous year. The thing else. Island of Hawaii led in production, producing 197,654 tons, and next in orfer comes Mani with 150,312 tons; Jahu, 136,966 tons, and Kauai with 108,551 tons.

nfavorable weather conditions the Island of Hawaii during the crop seasons very materially reduced the production of that island, and if it had not been for this the production of the Islands for this year would have been ealy slightly lower than that of the

previous year,
''It is a pleasure and a source of gratification to all of us that white cajoying exceedingly prosperous times the plustations have unselfishly and the plantations have unselfishly and voluntarily shared this prosperity with hose who till the soil and perform the manual labor necessary in the produccriticism of the high percentage of bonne paid to the plantation workers, it is unquestiously true that the fundamental principle underlying the bonus system, which is, that in times of prosperity the laborer shall share therein that they have been quick to apply this prisciple and deal justly and gen-erously with their laborers.

Labor Conditions Good conduct plantation operations were

The payment of a portion of the monthly and the extension there- Attendance Pull of to contractors has served to keep plantation hands contented and on the who return are certainly more compet-est and efficient through their exper-ience as plantation laborers in Hawaii.

The experiment station has had a

periment station committee. As a full report of the work done will be made by the director of the station and the committee and presented to you for consideration, I do not need to refer to their work beyond mentioning a few matters in passing which seem to me Work Holds Promise

with plantation experiments, which is have to be faced, for gentlemen, I feel referred to in the report of the experi- that we realize that when conditions trust that these experiments will be moderate protection which we are now and lighting was obtained from gaso-continued and extended through the wetting. I, for one, however, have no line engines and coal. This year all co-speration of the plantation man-fear for the future. We have met and the power is by burning molasses. rgricultural and chemical departments of the station should fill a long-felt want, and from these young men we may surely expect to find some of one future managers and head overseers.

'In passing. I would like also to con

Secret Method of Cane Development Still Secret

fome very secret method of grow ing sugar cane to wonderful heights has been discovered in Honolulu, but it is not as yet known to the members of the Hawmian Sugar Planters' Association, and it is not liable to bother them. H. P. Agee, director of the experiment station, reported yesterday that he had disrown in Honolulu to a length of special method of agriculture

(Cancinded from Page 5)
the cost of marketing our sugar during the next few years. There has been a proved and a contract let for a fre-proof building which will provide additional room for the staff and the valuable station. With the completion of these properties of these properties. pletion of these improvements, which are being made at a time when the plantations can well afford to pay for them, the Makiki section should b equipped for its work for some time

experienced, with a consequent lower ing of prices.

'It behooves us, therefore, while our industry is profitable, to provide for the future. This, I firmly believe, is a great improvement being made in the a great improvement being made in the being done—some are paying off bonds quality of sugars which we are sending and other indebtedness and laying to the refiners, and I trust this most aside emergency funds against a time important matter will receive your careof need, and others are putting in ful consideration and that some means and in the fields whereby the cost of production may be believed to the establishment of production may be believed to the establishment of a standard of the establishment of production may be believed. a standard of quality which will be ad-hered to by all.

"It is a truth too well known to

to improve the quality of his wares; and if, for one reason or another, the quality is allowed to decline, the manufacturer soon finds, in these days of competition, that he is losing his mur "The total production of sugar for the ket, or has to take a lower price than year ending September 30, last, was his competitors. This is equally true 593,483 short tons—nearly 53,000 tons of the manufacture of sugar as of any-

Competition in the sugar business, as in almost every other line of huainess, is becoming keener all the time, and we may be sure that the Cubans, with their ever-increasing crops, which they sell in competition with each other and with Hawaiian and Porto Rican sugars, are basing no opportunity of making a sugar more and snore in conformity with the requirements of the buyers.

The result will be that unless radical improvements are made at the beginning of this ways. improvements are made at the begin-ning of this crop, and continued through the season, new contracts will only be made subject to a deduction, based on refining value, greatly in ex-cess of anything we have ever had to

pay in the past. 'Though we have long been accus tomed to paying more attention to getting as much as possible for our sugars than we have to their quality, I feel sure that different methods must be adopted in the future, and that system, which is, that in times of pros-perity the laborer shall share therein with the employer, is correct; and it is to the credit of the sugar plantations that they have been quick to apply this prisciple and deal justly and gen-crously with their laborers.

Taker Conditions Good abor Conditions Good advantage as compared with the Cub consequence the cane joints are short-formerally speaking, the labor con- ans. It should also be remembered or than usual. However, preliminary ditions on the plantations during the that a very few, perhaps even one year have been fairly satisfactory. plantation, sending a poor quality of Some of the plantations have been more sugar, is quite sufficient to give the or less pressed for labor at different whole business a black eye and undo times, but I cannot recall any particular all the good work which is being done

when all of the Inborers needed by others, therefore I say that I be-duct plantation operations were lieve that all the plantations should agree to make a standard grade of ed, I fear that some of us would think refiners and that through its experi-that the milennium had arrived.

attendance of members at this meeting. This outfit is to serve a double pur paintation hands contented and on the attendance of members at this meeting. This outht is to serve a double purjob hearly all the time. Fiftpine immigration has continued without interruption and the labor committee will one of the servers of th tion may continue. Not only are we annual meetings in the past—I mean receiving benefit therefrom, but the Mr. Tenney, Mr. J. P. Cooke and Mr. Filipinos also are profiting. Very considerable sums of money are being Mr. Swanzy. Two of them, Mr. Cooke and siderable sums of money are being Mr. Swanzy, have been very seriously taken home by laborers, and those ill, as you all know, but I am glad to say that they are now considerably say that they are now considerably better, and it is, I know, the carnet hope of all of us that both these genvery active year under the direction of early date and that we may soon again.

Mr. Agee, in cooperation with the ex- have the benefit of their wise and kindly counsel.

extending over a period of about ten years, leads me strongly to believe that the interest in these annual gatherings is ever increasing, and that the participation in discussions following the reading of the papers is growing more reading of the papers is growing more and more valuable year after year. This is a most encouraging sign that The work being done in connection we are all alive to the problems which ment station committee, seems to me become normal, low prices must be exto give promise of great results, and I pected, even with a continuance of the recoperation of the plantation man-regers. The plan now in operation for evercome our bud times in the past as training a number of young men in the we will meet and overcome them in the ness, have brought the sugar industry tainable by ten or twenty per cent. of Hawnii to the high position which it new occupies, will be fully able to cope with whatever emergencies may arise.

Russian Sugar Crop.

PETROGRAD, Sovemer or 23.—The latest report from Karkoff says that the epilection of bestroot is nearly completed all over that Government. It makes about six to seven tons per nere, are searce. Sugar factories are working full time. M. D. Dietrich, a memher of the Imperial Council, when at ember 22: Kieff resently, said measures had been "Dear M

taken to obviate any sugar crisis. The best buryest weather has been antisfactory. The roof is of fine quali (well named). We hope to arrange with of the association for many years and ty and better than last year's as to the Great Northern people to arrive his death on August 22, 1916, was sugar content. If all the bestroot is hereafter in Hilo at seven in the morn well harvested it should yield 1,007,130 ing, so passengers may see your city as ances and friends. His knowledge of flon. sugar content. If all the bestroot is well harvested it should yield 1,607,130 ing, so passengers may see your city as over from last campaign will be quite enough to satisfy the army and the condy of sugar was extensive and thorough. Has been used success that campaign will be quite enough to satisfy the army and the population.

The description is hereafter in Hilo at seven in the morn mourned by a large circle of acquaint troi deserve more than casual considers. It has been used success the field.

The Anomala Beetle

"Hilo is on our map! and we hope sugar was extensive and thorough. Has been used success the cultivation and manufacture of the beetle is spreading, slowly extensive and thorough. The trouble disappeared rapid to send you many tourists who will stay beloved by all associated with him."

Ltd., agents for Hawaii.

PROSPERITY WILL NOT gratulate the pathological division on the excellent success which has attended of the work in connection with the search for parasites for the anomala beetle, and the establishment on the affected fields of one species of these parasites, viz., Scotta wasp. "The Makiki station has been extended by the purchase of a lot contain.

New varieties of sugar cane are eacroaching on the old standard varieties in the plantations of the Islands according to figures submitted to the secting of the sugar planters' association yesterday by H. P. Agee, director of the association experiment station.

Principally D1135 and H109 are spreading rapidly on the plantations gaining the favor of the planters. High praise was given H163 yesterday and of this variety, Director Ages stated:
"ril09 is a better variety of came
than Lahaina ever was at its best. On irrigated plautations, H109 will give a better yield than Lahaina, though it probably is not as well suited for unirrigated plantations. The caue is well passed the experimental stage and it would be well if plantations on which it has not been tried were planted with several hundred acres of H100 to ap-preciate its results. Plantations doing this will be well repaid." Mr. Agee's

figures in acres show:

D1135: 1914 erop, Hawaii 240, Kausi
154, Maui 332, Oshu 759, total 1485;
1916 erop, Hawaii 1149, Kausi 711,
Maui 1113, Oshu 1384, total 4357;
1918 erop, Hawaii 2272, Kausi 1518,
Maui 1773, Oshu 1294, total 7457.

H109: 1914 erop, Oshu 26; 1916
erop, Hawaii 22, Kausi 38, Oshu 498,
total 558; 1918 erop, Hawaii 72, Kausi
153 Maui 292, Oshu 2914, 1977 figures in acres show:

totni 558; 1918 erop, Hawaii 72, Kanai 163, Maui 228, Oahu 2314, total 2777. Under cultivation now for 1917 and 1918 crops there is 3928 acres of H109 and 12,688 acres of D1135.

600: Striped Tip, 7,200; Rose Bamboo, 5030: Di17, 4000; H109, 3928; Yel-low Tip, 1900; Yellow Bamboo, 1900, and Striped Mexican, 1800.

Other important Hawajian seedlings are H146, H227, H20 and H333. These are grown now on areas of from 100

Kauai Plantation Notes

The cane on Kausi for the coming rop is looking, on the whole, very well. There has been an abundant supply of water this summer and all the reservoirs are full to-overflowing. The only drawback is that the summer has been exceptionally cool. There has not been any prolouged hot weather and as a cane analysis at Kilanea has given very satisfactory purities for this time

All the mills either have begun grinding or are just about to begin aimea and Kekaha have been grinding for several weeks. Kilanes and La began about December first. Makaweli will begin, about December 8, McBryde December 18, and Kilauen about December 20.

At McBryde they are installing a "If is very pleasant to see so full an 300 K. W. turbe-motor-generator set. shredder.

The shredder is to be fitted up so that it can be driven either by electric motor or a steam turbine.

Improvements At Makaweli
At Makaweli they have been greatly mproving the surroundings of 'Haole Camp.'' The road from The road from the government road to the mill, passing through the "Haole Camp," which used to be a dust bath in dry weather and a hog wallow in rainy weather, has walks laid the whole length.

MOLASSES FUEL AT KEALIA

At Kealis, in former off seasons power for the machine shops, pumping, and lighting was obtained from gasothe power is by burning molasses They are obtaining about fifty horse power. By installing a Kome made fatore, and I have no doubt that the condenser, connected to an electric men at the head of our plantations, generator, they expect to be able to in who, by their energy and resourceful crease the amount of horse power ob-At Kilauea the cold wet weather has not yet arrived. Consequently cane is still making good growth.

HILO NOW ON THE LOS ANGELES MAP

HILO, December 3 President Me. Labor is ample, but hands for prepar- ceived the following letter from Presi geles chamber of commerce, written or board the Great Northern at sea Nov.

"Dear Mr. McKay: I want to thank you and our Hilo friends for you kind reception at the 'Scenic Gateway,' (well named). We hope to arrange with

To Burn Or Not To Burn Is Question That Excites Sugar Planters' Association

BURNING-OFF BURNING ISSUE OF BIG MEETING

Liveliest Discussions of the Day Provoked By Appearance of Disputed Theories

To burn or not to burn the trash on cane fields was the question when the creport of the committee on cultivation, fertilization and irrigation on irrigated plantations was submitted to the meet plantation was submitted to the meet the station and having the work at the plantation was submitted to the meet the station and having the managers and the station was the plantations and the station was the plantations and the station was the plantation was submitted to the meet.

Three advantages were pointed out a year.

by Mr. Renton in leading the discussion for the practise of leaving trash on the Director Ages, leading the discussion, declared that one of the very definite achievements of the station this year the soil and lessening of the cost of weeding.

Reducing Cost

Beducing Cost

In this connection his report points out a method of reducing the cost of irrigation by leaving the trush in alternate furrows and irrigating the intervening furrows from which the leaves and refuse have been removed, the idea tablished. This is the first record of being to leave the trush in the alternation.

In this connection his report points work on the investigation.

F. A. G. Muir, entemologist, at the station described the work on the Anomalous terms of the intervenience and a hair years work on the investigation.

F. A. G. Muir, entemologist, at the station described the work on the investigation.

F. A. G. Muir, entemologist, at the station described the work on the investigation.

F. A. G. Muir, entemologist, at the station described the work on the investigation. Reducing Cost

around?" Mr. Renton admitted that we are convinced that because a field there would not be enough labor, but is once infested with Anomala beetle that at the beginning of the crop at does not mean that it will be infested least a few fields could be handled with forever. Leaving trash on the fields out burning off. H. B. Penhallow points does not apparently help the developed out that two fields on his plantation ment of the Anomala pest nor will handled without burning off were much burning off necessarily give any recheaper to care for and had promising her?" Gaylord P. Wilcox told of the adi

the crop be gotten in the same time with the same number of mea. Mr. Gibb stated that even if the labor were available his opinion was that

lifty per cent of the trash was retained with light burning which would be not enough to hart the soil, that is to burn before cutting and leaving the Mr. Agee said that there was no ques

tion but that the trash was a beneat to the soil as it puf arganic matter back into the soil though there was possibility that too much trash might be turned back into the soil.

Asked how much more labor would be needed to permit leaving trash on all fields and eliminating burning off, Mr. Renton replied that from twentyave to thirty per tent more labor woul,

ASSOCIATION HEARTILY ENDORSES WORK DONE BY LOCAL EXPERIMENTAL STATION

committee.
The consensus of opinion was that everything possible should be done to advance and extend the work of the experiment station. Increase in the work of field experiments at the various plantations is planned extensively for the future for the benefit of plants-

with ing of the Hawaiian Sugar Planters' spine Association yesterday by George F. Reaton, chairman.

The merita and demerita of "burning issue of the seasion. The subject provoked the plantation Experiments of the day and was not without a vein of the day and was not without a vein of the same opinion still."

There advantages were pointed out by Mr. Reaton in leading the discussion for the practise of leaving trush on the lelds. These

The discussion quickly simmered the present time."

The discussion quickly simmered the parasites have been discovered for leafhopper but are not yet definitely established. No change in the alfustion regarding the came borer was reported. The Technid dy as, a parasite is attaining maximum efficiency in all districts except Kau, Hawaii. On the leafhopper and Anomala Specile pests the report states:

"A year ago we stated that it was Mr. Muir's plan to effect a more rigid-control of the leafhoppers by securing additional egg-parasites from Formosa and it is now gratifying to report that he has introduced three new species and that there is good reason to expect that these parasites will become established. "These Mr. Muir brought with him in returning from the Philippines by comitte generations throughout way of Pormosa. One of them is a year. Mymarid of the genus Paranagrus and very similar to Paranagrus optabilis, our very valuable species introduced

SECRETARY MAKES

ANNUAL REPORT

W. O. Smith Shows Facts and Figures For Year At Association Meeting

Wery similar to Paranegrus optabilis, our very valuable species introduced from Australia twelve years ago.

'The other two Formosa leafhopper egg parasites were species of Otetrastichus death introduced from Fiji in 1905. One of these species issued in sufficient numbers from the material brought by Mr. Muir, and the they became established from the ilberated colonies. The other species is sued in smaller numbers from the original material brought in by Mr. Muir, and though the antire colony was retained in numbers in field 11 of the trial brought in by Mr. Muir, and though the antire colony was retained in numbers in field 11 of the trial brought in by Mr. Muir, and though the antire colony was retained in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the original material brought in the breeding cages they have propagated readily and colonies to the consignments. Los Bands, P. I., and sent causecutive shipments of the coordinate consignments of the consignments. Too Bands and May, So few adults and to the consignments of the consignments and May, So few adults and the consignments are consignments. Too Bands and May, So few adults and the consignments are consignments. Too Bands and May, So few adults and Ma W. O. Smith, secretary-treasurer of the sugar planters' association, made in March, 1916, been distributed to favorable localities. The breeding work has been handled by Mr. Swezey and Mr. Timberlake, with the result that colonies are now input meeting yesterday.

The sugar crop report for the year, prepared by R. D. Mead, director of the bureau of labor and statistics, the property of the result that colonies have been distributed to favorable localities. The breeding work has been handled by Mr. Swezey and Mr. Timberlake, with the result that colonies are now being liberated on plantations where the maindy was first observed in one or two stools near five new parts and the bureau of labor and statistics, the property of the statistics, the property of th

he bureau of labor and statistics, the coordinated showed for the year end ag september 30, 1916, a total tomage of 52,3483 short tons, being 52,862 tons than the previous year.

Now members reported by Secretary smith were Alexander Valentine, W. P. Naquin and J. L. Coburn. The resignation of W. J. Dyer was reported. The manufacture of the association is 120. The resident of the association is 120. The resident for the second state of the leafhopper, and the association is 120. The resident for the second state of the second state of the leafhopper, and the association is 120. The resident for the second state of the leafhopper, and the association is 120. The resident for the second state of the leafhopper, and the association is 120. The resident for the second state of the leafhopper, and the association is 120. The resident for the second state of t nembership of the association is 129, say and Mr. Timberlake. Despite the fin his report Mr. Smith mentions the natural enomies already here there have leath of W. G. Ogg. saying:

"Mr. W. G. Ogg had been a member within the past few years. The serious

Their experiment station, the members of the Hawkish Sugar Phipers' Association year-ray gave wender attention to the aport of the Housian Plantation Company and experiment station to the aport of the Housian Plantation Company and the Cahu Sugar Company (including ling the better part of the daykin the lisensation of the various important coints raised in the report.

Progress in the propagation of parasettes for care pasts; the problem of the accellent Lahaina disease, and other three diseases; soil stady; irrigation and coil moisture investigations and plastation field experiments were the main topics of diseassion on the report led by J. P. C. Hagens, chairman of the committee.

whether the reference of came trash on a field will be beneficial or otherwise in contending with the Anomala beetle. According to Mr. Swezey, from the great abundance of grubs beneath the layers of trash in fields where trash has been left it looks as though this organic matter would offer an attraction that would keep these from the case stools. On the other hand, it may furnish so favorable a breeding ground as to result in such a vest increase in the total number of beetles that in the end the damage to the case might be greater than if the trash had been burned. "This point will be attdied with great interest, as we feel that the practice of refaining trash may have an important bearing one way or the other. Enemiss of Anomals

"Work along this subject has resolved itself into introducing and establishing a number of natural enemies and parasites which have been found threaten."

being to leave the trash in the alternate furrows to act as a mulch to premerve the moisture in the soil.

J. T. Moir raised the bugbear about
which the burning off problem revolved:
"Where would we be," he said, "if ently. It will be twelve months or so
every plantation did not burn off.
Would there be enough labor to go ed. One important discovery is that
around?" Mr. Renton admitted that we are convinced that because a field
the scolia wasp having been transferred
to another record of
"Work along this subject has resolved treef into introducing and essolved treef into intolination in the interior in the proper into into introducing and essolved treef into introducing and essolved treef into i

to efforts to successfully transport these to Honolulu. Much material was lost before successful ways of handling the insects were found. The length of the voyage, infrequency of shifts, and irregular sailing schedules have contributed to the disappoint ments which are to be recognized as a part of the routine of this work. A quantity of material was brought in by Gaylord P. Wilcox told of the advantages of keeping the trash on fields saying that it took less men to hoe, that the trash rotted well and that fields used thus keep about normal. Several plantations have reported outbreaks, but for the work in the Philippines from November working out good yield.

F. F. Baldwin stated that there was much to be said on either side of the depredations at the plantation of the Hawsiian Agricultural Company have stimed definite damage, but Mr. Swezsy out without burning it would be eleven or twelve months before the harvest would be completed and that much of the cane would rok.

Leafhopper Pest

On the leafhopper pest the report plantation of material was brought in by Mr. Muir when he returned in March. Mr. Qabova, who has assisted in the work in the Philippines from November have reported outbreaks, but for the depredations at the plantation of the Hawsiian Agricultural Company have stimed definite damage, but Mr. Swezsy with colonies of parasites, where he will be met by Mr. Osborn, who will return to Honolulu with the material. There is great advantage in making consignments in this manner under expert attention.

under expert attention. The more important of the para-sites now under consideration are the waspe: Scolla manilae, Tiphia compressa, Tiphia sp.; and the flies; Pro-sena sp. and Dexia sp. Mr. Swezey supplies information on Scolia manilee as follows;

"This is a small wasp that digs in the ground, finds a grub, stings and paralyzes it; then affixes an egg in an variable position on the middle of the entral surface of the grub. The egg ventral surface of the grub. The egg hatches in a few days, a cocoon is spun in which further development to the adult takes place in three or four weeks, according to the season. This parasite breeds on grubs of both Anomals and Adoretus (Japanese rose beetle) and apparently produces successive generations throughout the

Mr. Osborn was very successful in breeding Scolis at Los Banes, P. I.,

spread rather rapidly to adjoining case. Hy catting and burning all affected cases, the spread of the disease was arrested. According to Dr. Lyon this discuse has great potentialities for harm. Our knowledge of it is yet imperfect. In other countries, particular-by Mauritius, it is said to have caused great damage, spreading like a fire through the fields despite attempts at through the fields despite attempts at its central. Dr. Lyon emphasizes the importance of early indentification and prompt action in contending with this frouble. He states that the diseased cases die quickly and turning brown make the affected stools conspicuous in the field.

We were recently called upon to investigate a peculiar malady which saddenly appeared in a small patch of H-109 on Hawali. Doctor Lyon believes the trouble to be caused by a parasitic fungus which attacks the leaf bases, causing the leaves to turn yellow and die prematurely."

H. L. Lyon, pathologist, described the

H. L. Lyon, pathologist, described the affect of top-rot on cane, explaining how it attacks the tender leaves first. He stated that H 333 cane variety could not be grown extensively on account of the fact that it will probably be wiped out every six or seven years.
The work of Mr. Burgess on soil study has shown that the soils are highly acid and that ammonification and aftrification are very low. As investigation is under way to determine the relative merits of finely pulverized coral rock with the comparatively

ing neid lands.
On the subject of fertilizer control work, Mr. Agee stated that experiments show that the majority of the planters can increase their fertilizations. By Leginning with a slight increase, he said, planters can go in for more intensive cultivation and fertilization. Work On Seedlings

In reviewing the work on raising seedlings, Mr. Agee stated that during the coming season the station proposes to propagate seedlings on all the Islands and arrangements are already under way with several plantations to facilitate this work.

Reporting irrigation and soil moisture experiments, Mr. Agee illustrated the moisture conserving power of trash left on the fields. With trash the soil showed thirty per cent of moisture be-fore irrigation and thirty-six per cent after irrigation and without trash twenty-six and a half per cent before irrigation and thirty two per cent after

irrigation. Putting cane trash in alternate furrows and leaving the intervening furrows clear for irrigation was reported as giving favorable results as the home surmounts many difficulties in handling trash on irrigated plantations and offers propounced possibilities of economy on irrigation.

Discussion On Report

Discussion on the report centered on the success of H-109 cane variety, need of potash in the soil and the work of extending field experiments to the plan-tations. Mr. Agee and Mr. Larsen of the station have many experiments under way now, but none will show definite results before a year. Confidence was expressed that the experiments would prove most valuable, and it was here that the members of the association gave their hearty endorsement to extension of this work as the best means of siding the work of the sta-tion in finding. "the best way to raise larger crops at less expense per ton of

sugar ready to skip."
On the subject of potash Mr. Bottomley raised the question of whether iny effect was felt from lack of this ngredient of fertilization. Mr. Agee pointed out that the more extensive use of nitrates had done more good than the absence of potash had done barm. The soil of Hawaii, he said, may not need as much potash as is sup-

Mr. Peck stated that it is impossible o Japan with colonies of parasites, to tell at this time whether the loss of potash is felt or not, but from the appearance of some cane indications are hat it has suffered from the loss. His hef was that unless some other fer ilization ingredient was found to retern potash the yield of cane would suffer.

"It is sound practise," he said, "to turn as much as possible of potash to be soil. It is a policy of conservation 'hat will have its reward in the fu-

fames Johnston, of Ookala, stated that the increased percentage of nitrothe Hito coast this year, the highest ny in the last ten years. he said it is a question whether the added one of potash would not have in-On the extended use of H-109 va-

icty George F. Renton suggested that had become so successful that it orld be considered well past the ex-erimental stage. Frank A. Alexander ied H 109 was the best and that his empeny was spreading it as fast as " ble. I ate cutting as well as early tting yields good shoots, he said.

Planters Appropriate \$30,500 For Building

The board of trustees of the Ha waiian Sugar Planters' Association has appropriated \$30,500 to pay for the new office building being built at the association's experiment station on Keenamoku Street, according to announcement of J. F. C. Hagens, chairman of the experiment station committee.

Three Veterans Present

Three veterans were all that were attendance at yesterday's meeting of the sugar planters' association of he ''old guard'' who founded the rganization. They were W. O. over of the association; P. C. Jones and G. N. Wilcox.

WHOOPING COUGH.

When your child has whooping cough be careful to keep the cough loome and expectoration easy by giving Chamber-lain's Cough Remedy as may be required. | This remedy will also liquity